

WHAT IS CLAIMED IS:

- 1 1. A method for inhibiting fertility in a female mammal in need thereof
2 comprising administering to the mammal a pharmaceutical composition comprising an
3 isolated nucleic acid in an amount sufficient to inhibit fertility in the mammal.

- 1 2. The method of claim 1, wherein the nucleic acid is an oligonucleotide.

- 1 3. The method of claim 1, wherein the nucleic acid comprises an
2 immunostimulatory sequence.

- 1 4. The method of claim 3, wherein the pharmaceutical composition does
2 not comprise an antigen against which a protective immune response is desired.

- 1 5. The method of claim 1, wherein the mammal is a human.

- 1 6. The method of claim 1, wherein the mammal is a dog.

- 1 7. The method of claim 1, wherein the pharmaceutical composition is
2 administered intradermally.

- 1 8. The method of claim 1, wherein the pharmaceutical composition is
2 administered orally.

- 1 9. The method of claim 1, wherein the nucleic acid is a phosphorothioate
2 analogue.

- 1 10. The method of claim 1, wherein the amount sufficient to induce
2 infertility is a dose between about 50 μ g/kg and about 1mg/kg.